

SUB

NIEDERSÄCHSISCHE STAATS- UND  
UNIVERSITÄTSBIBLIOTHEK GÖTTINGEN



## Von der Idee zu den Anforderungen

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Abschlussworkshop Projekt ASCH  
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GEORG-AUGUST-UNIVERSITÄT  
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# In 7 Schritten zum Modell

- 1. Empirische Erhebung und Analyse
- 2. Anwendungsfälle (use cases) formulieren
- 3. Definition der Anforderungen (requirements)
- 4. Identifizierung von Klassen und Beziehungen zwischen Klassen
- 5. Identifizierung von Eigenschaften (properties)
- 6. Entwicklung von Anwendungsprofilen
- 7. Test des Datenmodells

# Schritt 1: Empirische Erhebung



## Workshop und Interviews mit Experten aus Geistes- und Naturwissenschaften

- einrichtungsübergreifend
  - Museen
  - Bibliotheken
  - Archive
- fächerübergreifend
  - Anatomie / Humanbiologie
  - Archäologie
  - Bibliothekswissenschaft
  - Botanik
  - Ethnologie
  - Geologie / Mineralogie
  - Informatik
  - Kunstgeschichte
  - Musikwissenschaft
  - Zoologie

# Empirische Erhebung



- **Methodik**

- Einzelinterviews
  - semi-standardisiert
  - Fragenkatalog
- Gruppeninterviews
  - Gesprächsleitfaden

- **Thematische Schwerpunkte**

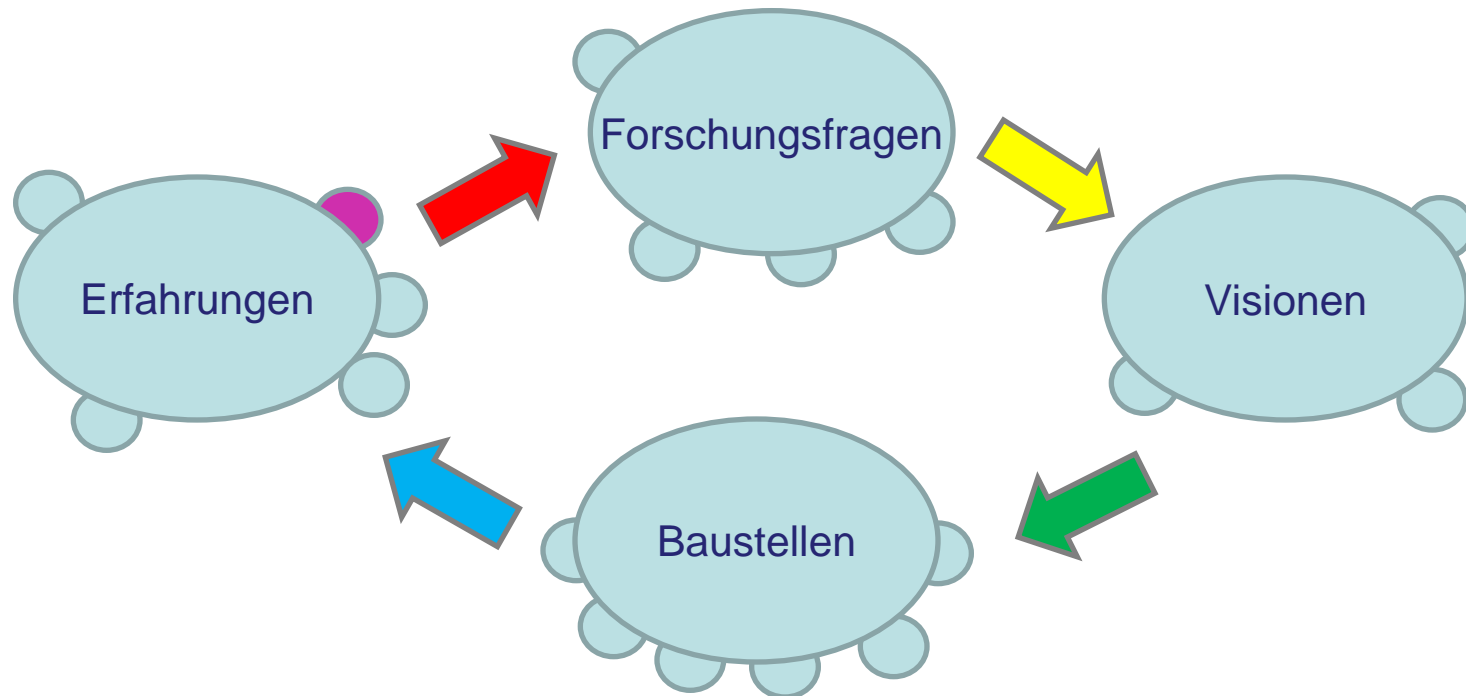
- Datenmanagement
  - Welche Informationen liegen zu den Objekten vor? (das Objekt selbst, Katalog, Etikettierung, Archivmaterial, Beschriftungen auf Kisten, Publikationen...)?
  - Inwieweit sind diese Informationen zusammengetragen / zugänglich?
  - Welche Datenbank wird genutzt?
  - Welche Daten befinden sich in der Datenbank?
- Umgang mit Provenienzinformatoren zu Sammlungsobjekten
  - Entstehung – Ursprung – Urheber
  - Zuschreibung
  - Besitzgang
  - Evidenzen

# Empirische Erhebung



## – Workshop in Form eines World Cafés

- Fragestellungen der verschiedenen Fachbereiche
- Umgang mit Provenienzinformatoren
- Sammlung von Fallbeispielen (case studies)





# Auswertung der erhobenen Daten

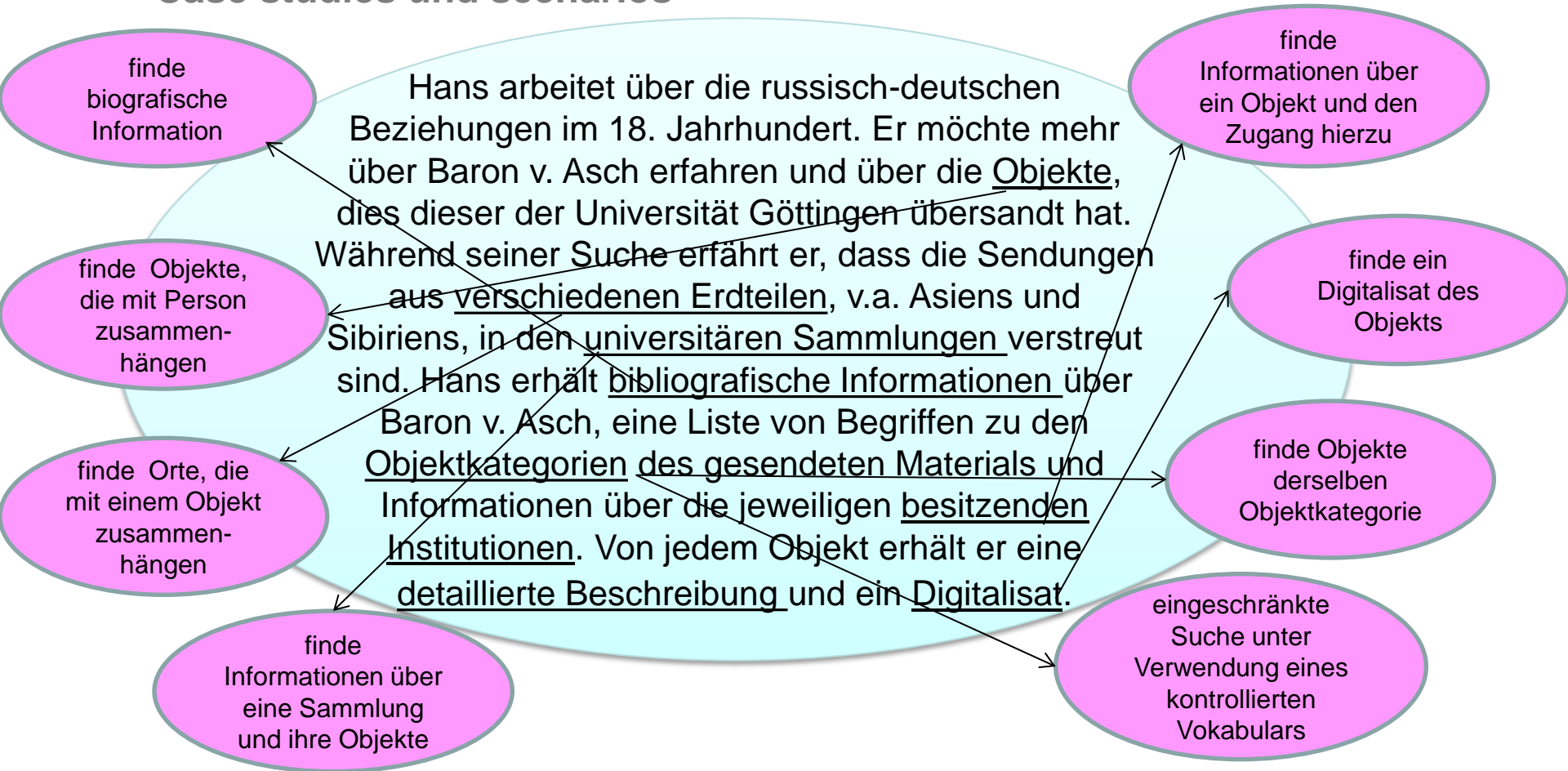


- **Unterschiede → fachliches Profil**
  - Anforderungen an Objektbeschreibung
  - Datenformate
  - Vokabulare
- **Gemeinsamkeiten → Benennung von use cases**
  - Eindeutige Identifikation von Objekten
  - Objektbiographie (Herstellung, Sammlung, Modifikation, ...)
  - Gebrauchswandel und Rezeption von Objekten
  - Information über Personen, die mit Objekt in Zusammenhang stehen (Hersteller, Sammler, Überbringer, ...)
  - Nachweis von Informationen durch Evidenzen

# Schritt 2: Anwendungsfälle (use cases) formulieren



- Case studies und scenarios





# Anwendungsfälle (use cases) formulieren



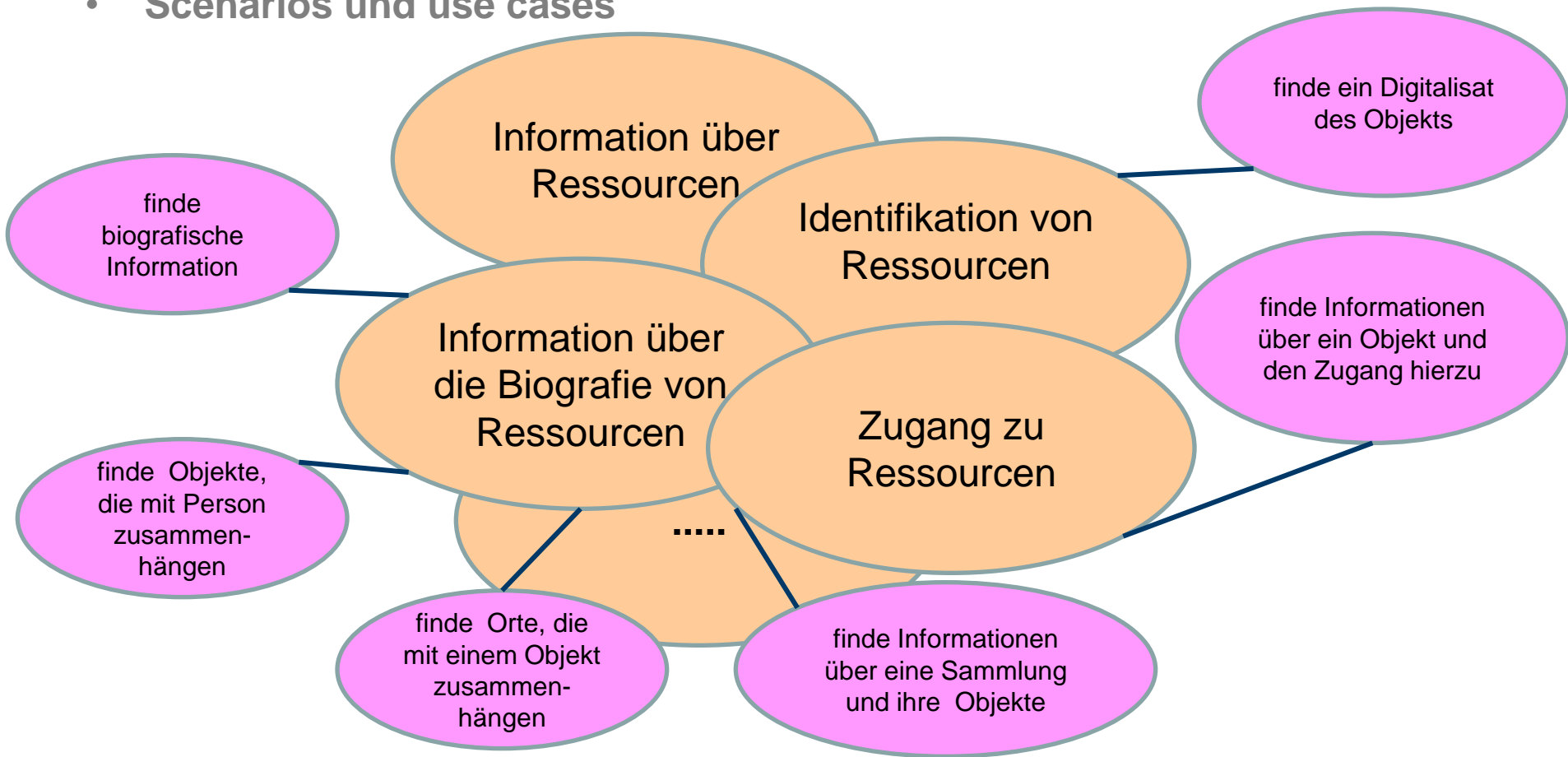
- Case studies und scenarios

ID	Case Study	Scenario ID	Scenario
CS 1	For his work on Russian-German relationships in the 18 <sup>th</sup> century Hans needs to know more about Baron Georg T. von Asch and the items he sent to the University of Göttingen. During his search he learns more about von Asch's studies in Göttingen and that he sent items from different parts of Asia and Siberia to the University later on, which today are dispersed over several academic collections. Next to information about von Asch he finds a list of terms, categorizing the different items related to von Asch (Geology, Zoology, Ethnography, Literature, Letters, etc.) and information about the collections, holding these items today. For every item he gets a detailed description and a digital representation.	Scenario 6	A user needs biographical information about life and work of an agent.
		Scenario 7	A user is searching for all items related to a person.
		Scenario 26	A user wants to know more about places related to an item.
		Scenario 43	A user found information about an item and wants to know how he/she may get access to the item.
		Scenario 14	Browsing the web a user has found information about a collection. He/she wants to know what sort of items he/she will find at the collection.
		Scenario 15	A user wants to qualify his/her search using values from a controlled vocabulary (e.g. a taxonomy or authority file).
		Scenario 13	Searching for an item a user uses a controlled vocabulary to get all items of the same class.
		Scenario 17	A user is identifying the item he/she needs by a digital representation of the item.
CS 2	Greta is working on an article about fluorit occurrence at the Yenisei. She is living in Hannover and hopes to get some samples at a university nearby. She is searching for "fluorite" and gets a list of items named as "fluorite" or "fluorspar". The list is ranked by the proximity of the holding institutions to her location. She specifies her search by using the geographic coordinates of the area she is working about. She gets a shorter list and	Scenario 12	A user is searching for a resource known by different names. He/she uses one of the names for his/her search and gets all hits where one of the names is been used.
		Scenario 45	A user is searching for an item in an institution nearby. He/she gets a list of all institutions storing such items and wants to select the nearest one.

# Anwendungsfälle (use cases) formulieren



- **Scenarios und use cases**



# Anwendungsfälle (use cases)



UC 1 Information über Ressourcen

UC 2 Identifikation von Ressourcen

UC 3 Information über die Lebensgeschichte von Ressourcen

UC 4 Wandel in Gebrauch und Rezeption von Ressourcen

UC 5 Untermauerung der Informationen durch Evidenzen

UC 6 Provenienz von Aussagen

UC 7 Zugang zu Ressourcen

UC 8 Wiederverwendbarkeit der Daten

# Schritt 3: Definition der Anforderungen (requirements)

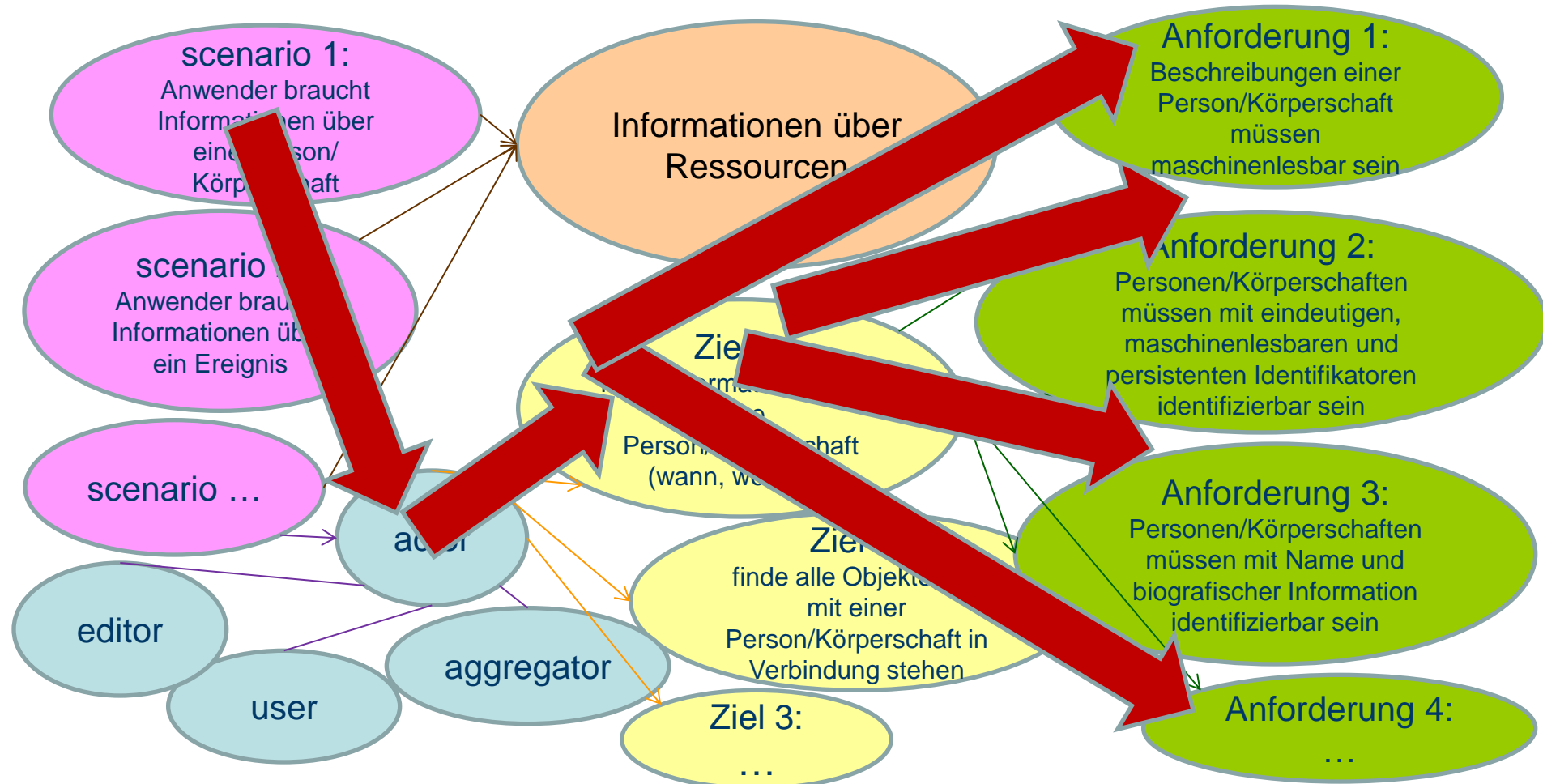


- **Bedürfnisse des Endnutzers**
  - Nutzungskontext
    - Für welchen Bereich wird das Modell entwickelt?
  - Zielgruppe
    - Wer soll die Daten nutzen?
- **Anforderungen an Metadaten**
  - Welche Fragen sollen mit den Metadaten beantwortet werden?
  - Welche Informationen brauche ich zu den Metadaten (Metadaten Provenienz)?

# Definition der Anforderungen (requirements)



- Analyse der Szenarios und Definition der Anforderungsbedürfnisse
  - Szenario -> Akteur -> Ziel der Anwendung -> Anforderung



# Definition der Anforderungen (requirements)



- Clustern der Anforderungen in use cases

Use Case	ID	Scenario	Actor	Goal	Requirement ID	Requirement
Scenarios related to the search and finding of resources in the web in general						
UC 1 Information about resources	Scenario 1	A user wants to know more about a collection and the items that belong or belonged to it.	user	Find information about a collection.	[Requirement 46]	Collection descriptions must be machine readable.
				Select a collection.	[Requirement 48]	Collections must be identified by an explicit name.
				Browse from item description to collection description.	[Requirement 51]	Item descriptions must be assigned to 1-n collections.
UC 1 Information about resources	Scenario 2	A user is searching for items in a collection.	user	Browse through resources related to a collection	[Requirement 75]	Items must be identified by identifiers that are unique, machine readable and persistent.
					[Requirement 52]	All items of a collection must be interlinked with the collection using unique, machine readable and persistent identifiers.
UC 1 Information about resources	Scenario 3	A user needs to know when an item was related to another item (e.g. was part of another item).	user	Find information about the time an item was related to another item	[Requirement 12]	The relation between two resources can be specified by the time this relation was valid.
UC 1 Information about resources	Scenario 4	A user needs information about an event.	user	Find information about an event	[Requirement 21]	Event descriptions must be machine readable.
UC 1 Information about resources	Scenario 5	An editor describes the relation between an item and an agent.	editor	Characterize the link between an item and an agent.	[Requirement 20]	Item descriptions must be interlinked with 1-n events (creation, modification, collection, etc.) the lifecycle of the item.

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... und so geht es weiter ...



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